

REMARKS

Claims 1-39 are pending in the present application. In the above amendments, claims 5, 14, 21, 22 and 28 have been canceled. Claims 1, 10, 18, 22, 23, 26, 27, 32, 38 and 39 have been amended. The amendments of claims 23 and 26 are clerical in nature. Support for the amendments to claims 1, 10, 18, 22, 27, 32, 38 and 39 is found in paragraphs [1041] and [1042] of the specification. These amendments add no new matter to the application.

In the Office Action mailed May 24, 2005, the Examiner rejected claims 1-39.

Applicants respectfully respond to this Office Action.

CLAIMS 1-39

The Examiner rejected claims 1-38 under 35 U.S.C. 102(e) as being anticipated by Leifer et al. (US 2002/0013164). Independent claims 1, 10, 18, 22, 26, 27, 32, 38 and 39 have been amended to include the feature:

whereby said weighting factors may be determined in accordance with the following equation:

$w = ((R-R_s)^{-1})c$, where w is the weighting factor, c is an estimate of said complex spatial signature, R is a complex covariance matrix, and R_s is the matrix formed by taking the out-product of c with c -hermitian conjugate.

Leifer does not disclose this feature. Thus, claims 1, 10, 18, 22, 26, 27, 32, 38 and 39 and their respective dependent claims are not anticipated by Leifer because Leifer does not disclose all the features of these claims.

REQUEST FOR ALLOWANCE

In view of the foregoing, Applicant submits that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application are earnestly solicited. Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

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